

CEM-FIL® 70

Monofilament excellent finishing



Cem-FIL® 70 is a special purpose AR-glass fiber chopped strand designed for mixing with cement and other materials where superior fiber dispersion is required in wet or dry formulations.

✓ Produced with AR-glass, the alkali-resistant glass is specifically designed for concrete reinforcement, and lives up to a 50-plus-year reputation.

✓ Incorporates easily.

✓ Designed for high fiber dispersion with a variety of materials.

FOR RENDERS, STUCCO, AND MORTAR REINFORCEMENT

Product Benefits



Crack Control

- Enhanced plastic shrinkage crack control
- Neutral buoyancy: won't float or sink in fresh concrete
- Uniform dispersion of 100 million filaments per kg of 12 mm fiber



Enhanced Performance

- High elastic modulus fiber, giving crack control beyond plastic state
- Mineral fiber with high affinity to cementitious materials
- Increased flexural strength
- No rust, no staining
- Invisible in the finished surface



Faster Work

- Low impact on workability
- Easy and trouble-free pumping
- Flows and dispenses easily for automated dosing

Application

Cem-FIL® 70 is typically used in the formulation of specialty mortars, repair products, GRC face mixes, and industrialized processes. The product is designed to disperse fully into individual filaments when mixing in an aqueous environment. It is mainly used in renders, stucco, and mortars, but is also compatible with epoxy resins.



Technical Characteristics

FIBER LENGTH	FILAMENT DIAMETER (ISO 1888:2006)	LOSS ON IGNITION (%) (ISO 1887:1995)	MOISTURE (%) (ISO 3344:1997)
3–6–9–12 mm 1/8”–1/4”–3/8”–1/2”	20 µm/0.00078"	0.60	0.50 max

- Electrical Conductivity: Very low
 - Specific Gravity: 2.68 g/cm³
 - Material: Alkali-Resistant Glass*
 - Softening Point: 860°C/1 580°F
- Chemical Resistance: Very high
 - Modulus of Elasticity: 72 GPa–10x10⁶ psi
 - Tensile Strength of Input: >1 000 MPa –> 145 ksi

*Our fibers are manufactured with high zirconia content in compliance with ASTM C1666/C, 1666/M-07, and EN 15422, and under the recommendations of PCI and GRCA.

Dosage

Recommended dosage is between 0.02 and 0.5% by weight of dry ingredients, or 0.4 and 10 kg/m³ (0.7–17 lb/yd³). Fibers can be blended and bagged with dry mortar ingredients, or introduced directly to the mixer.

Packaging & Storage

Cem-FIL® 70 chopped strands are packed in individual plastic bags (18 kg). Cem-FIL® 70 chopped strands should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperatures between 15 °C and 35 °C and humidity between 35% and 65%. If the product is stored at lower temperatures, it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

Quality Standards

- Cem-FIL® 70 fibers are manufactured under a quality management system approved to ISO 9001.
- Cem-FIL® fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.
- Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.

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POSSIBLE™

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